History & Trends

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April 2008
Who and what is STI/SPFA?

- STI formed in 1916
- SPFA formed in 1933 (See History)
- STI & SPFA merged in 2004
Who are Members of STI/SPFA?

- Association of 115 fabricators of steel construction products & 61 affiliates:
  - Shop-fabricated tanks
  - Field erect tanks
  - Pipe
  - Pressure vessels
  - Other special fabricated products

- STI members account for nearly all total shop-fabricated underground steel storage tank capacity production in North America
What does STI do?

STI develops and serves as:

- Tank technologies
- Industry standards & recommended practices
- Licenses manufacturers to build tanks to STI specifications
- Quality control
- Information resource
USA History

1859  Oil Found
1904  NBFU 30
       Rules for Petro
1916  STI
1919  API
1922  UL 142
1925  UL 58
1969  sti-P3
1989  UL 1746
1956 Standardized Tank Fitting Location
1960’s: Search for Corrosion Control
FRP Coatings
1979
CP Test Stations

1981
Urethane Coatings

1983
Zinc Weld-on Anode

1986
FRP Coatings
Early 1980s: Type II Double Wall UST’s
1984: STI Dual Wall Tank Std. (Type I)
Late 1980s: Non-metallic Containment
Critical Period: 1985 - 1989

- EPA interim prohibition in 1984
- Change from 20- to 30-year warranty
- Include internal corrosion
- STA formed
- Watchdog Program started
- STICO formed
- Quality Control Program & Audits begun
1987
Composite Steel Tank (a.k.a. FRP Clad)

1990
STI takes over ACT-100 tank program

Association of Composite Tanks (ACT) merges with STI
1991
FRP
Jacketed Steel Tanks
1992 - 1995

- Codes allow ASTs for fueling
- EPA accepts secondary contained ASTs in lieu of diking
- F921, Fireguard® technologies created
- Patent infringement case
AST Technologies
1997 - 2000

- EPA UST deadline in 1998
- Tank UST registrations begin steady decline
- STAC merges with STI
- Economy declines after 2000
2000 - 2005

- Tanks get **MUCH** bigger
- MORE tanks get secondary containment
- Tanks get compartmentalized
Steel UST Technology Trends

Installed STI-labeled USTs exceed 2 billion gallons

Graph showing trends in steel UST technology from 1987 to 2006.
SPFA Merges with STI

- Merger becomes official in 2004
- By-Laws rewritten
- New Board established
- Cincinnati office closed
- No personnel accept transfer
SPFA Culture

- Four distinct sections: Pipe, Field Erect Tank, Safety & Health, and Pressure Vessel
- Closer ties to steel mills: Affiliate & AISI
- More educational functions: PV Conferences, Water Tank Seminars, Safety Programs
- Pipe Audit Program
- Publications resulted from joint efforts with AISI